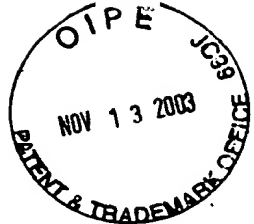


FIG. I



C ACC AGC AAC

→ PRECORE

ATG CAA CTT TTT CAC CTC TGC CTA ATC ATC TCT TGT ACA TGT CCC

ACT GTT CAA GCC TCC AAG CTG TGC CTT GGG TGG CTT TGG GGC ATG → CORE

GAC ATT GAC CCT TAT AAA GAA TTT GGA GCT ACT GTG GAG TTA CTC

TCG TTT TTG CCT TCT GAC TTC TTT CCT TCC GTC AGA GAT CTC CTA GAC

ACC GCC TCA GCT CTG TAT CGG GAA GCC TTA GAG TCT CCT GAG CAT

TGC TCA CCT CAC CAC ACC GCA CTC AGG CAA GCC ATT CTC TGC TGG GGG

GAA TTG ATG ACT CTA GCT ACC TGG GTG GGT AAT AAT TTG GAA GAT

79 81 84 85
CC G CAT CAA GGG ATC TAG TAG

CCA GCA TCT AGG GAT CTA GTA GTC AAT TAT GTT AAT ACT AAC ATG

GGT TTA AAA ATT AGG CAA CTA TTG TGG TTT CAT ATA TCT TGC CTT

ACT TTT GGA AGA GAG ACT GTA CTT GAA TAT TTG GTA TCT TTC GGA

GTG TGG ATT CGC ACT CCT CCA GCC TAT AGA CCA CCA AAT GCC CCT

ATC TTA TCA ACA CTT CCG GAA ACT ACT GTT GTT AGA CGA CGG GAC

CGA GGC AGG TCC CCT AGA AGA AGA ACT CCC TCG CCT CGC AGA CGC

AGA TCT CCA TCG CCG CGT CGC AGA AGA TCT CAA TCT CGG GAA TCT

CAA TGT TAG

FIG 2

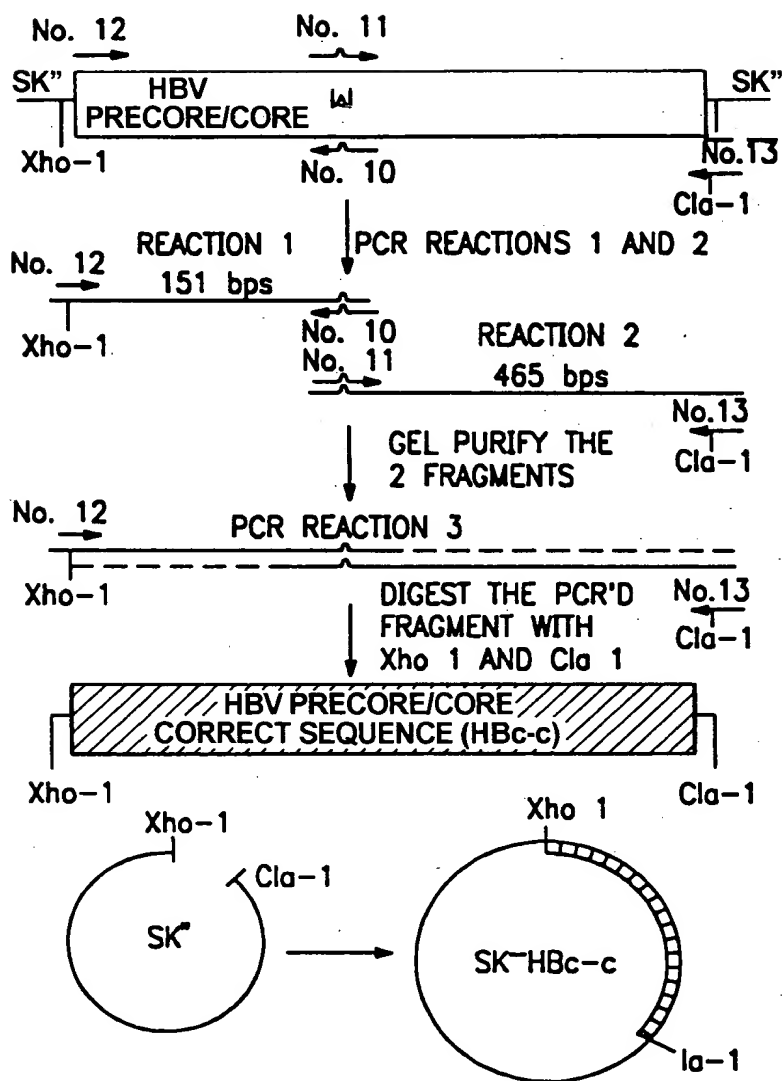


FIG. 3

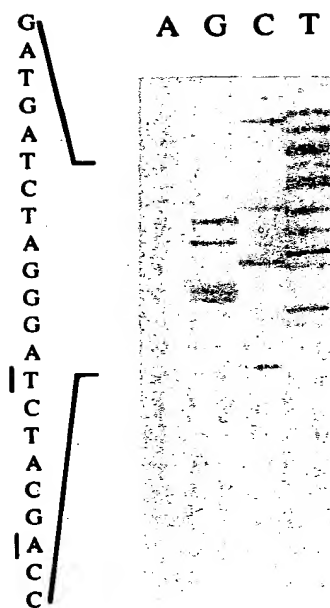


FIG. 4



ELISA for HBe				ELISA for BH core	
Sample Supernatant	ng/ml* (Incstar)	Sample Lysate	ng/ml* (Incstar)	Sample Lysate	ng/ml** (Abbott)
BC10ME BC/HBe 1-10	0.0 38.0	BC10ME BC/HBe 1-10	0.0 24.8	BC10ME BC core 6621	0 750
BL/6 BL/6/HBe 1-12	0.0 27.2	BL/6 BL/6/HBe 1-12	0.0 26.0	BL/6 BL/6 core 6625	0 100
LMTK- LM/HBe 1-1	0.0 24.8	LMTK- LM/HBe 1-3	0.0 18.1	LMTK LM core 1-2	0 250
EA2/Kb EA2/Kb/HBe 2-1	0.0 24.8			EA2/Kb EA2/Kb core 1-2	0 38
JA2/Kb JA2/Kb/HBe 2-3	0.0 22.4			JA2/Kb JA2/Kb core 10-1	0 200

Standard: rHBeAg (Biogen)
Standard: rHBcAg (Biogen)

FIG. 5

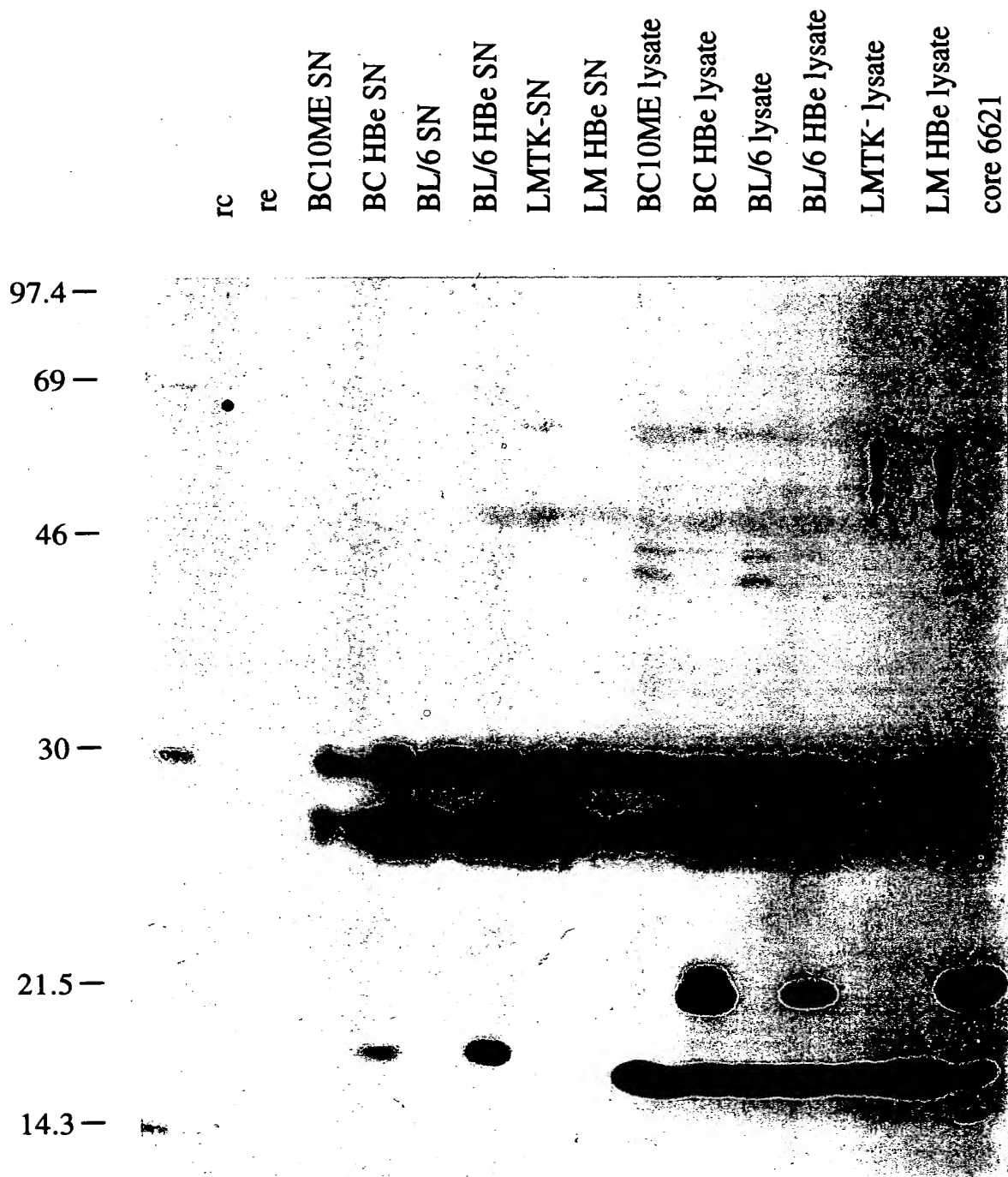


FIG. 6

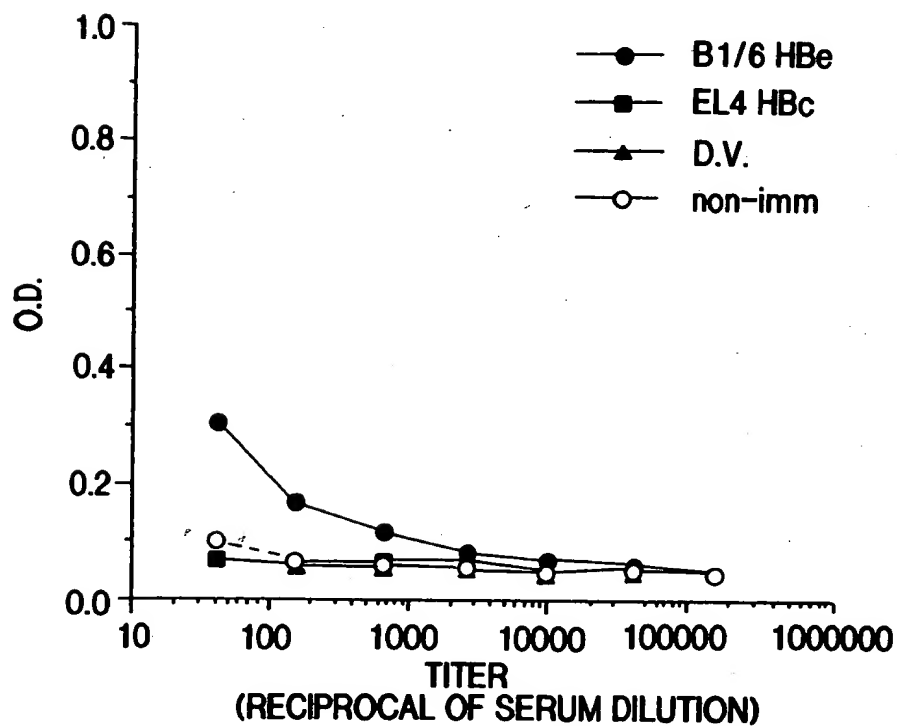
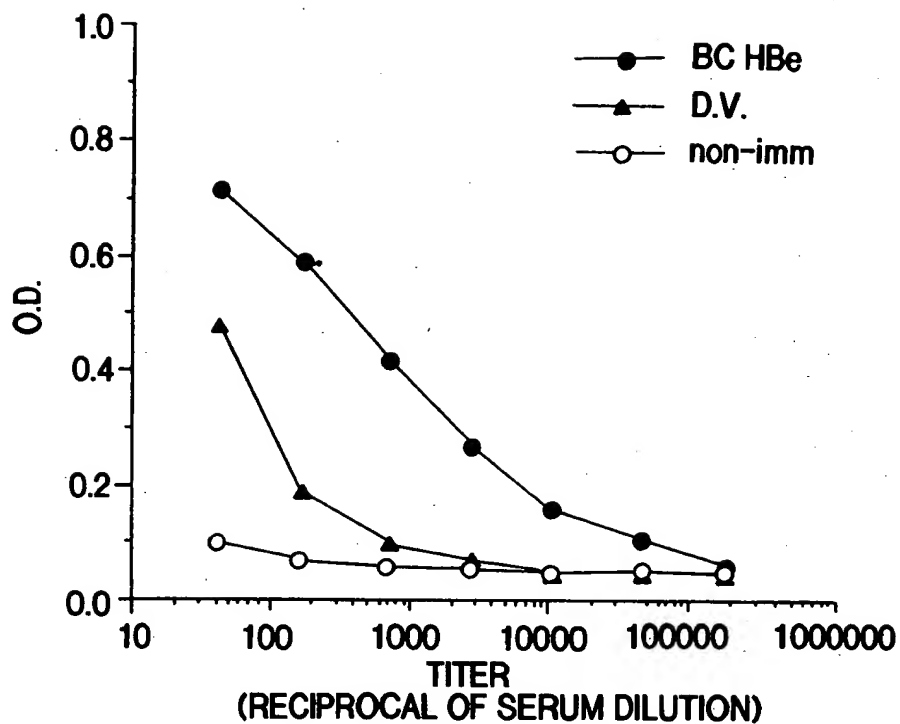


FIG 7A

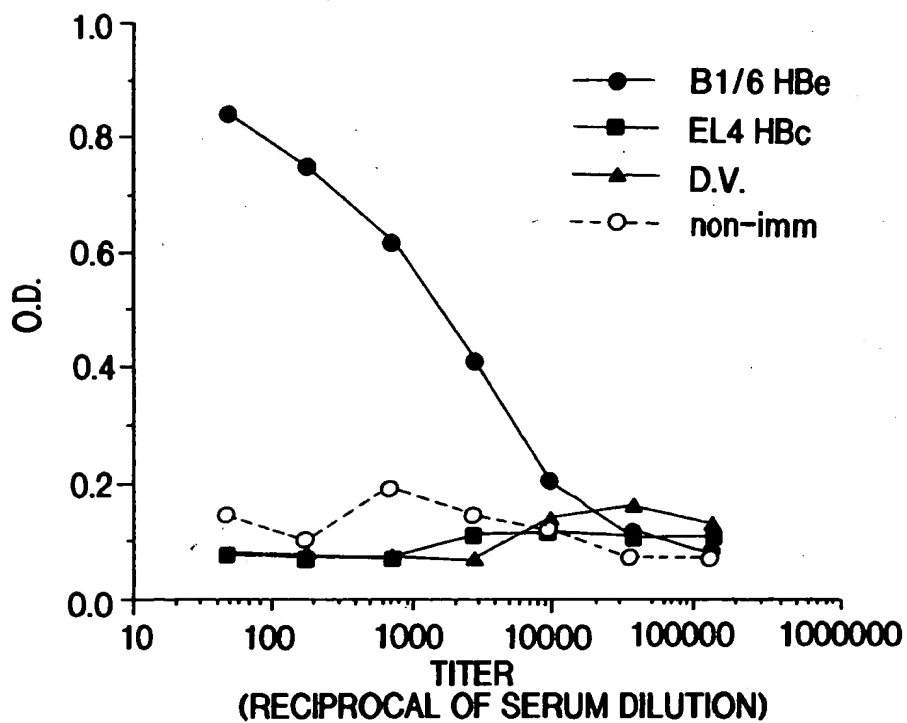
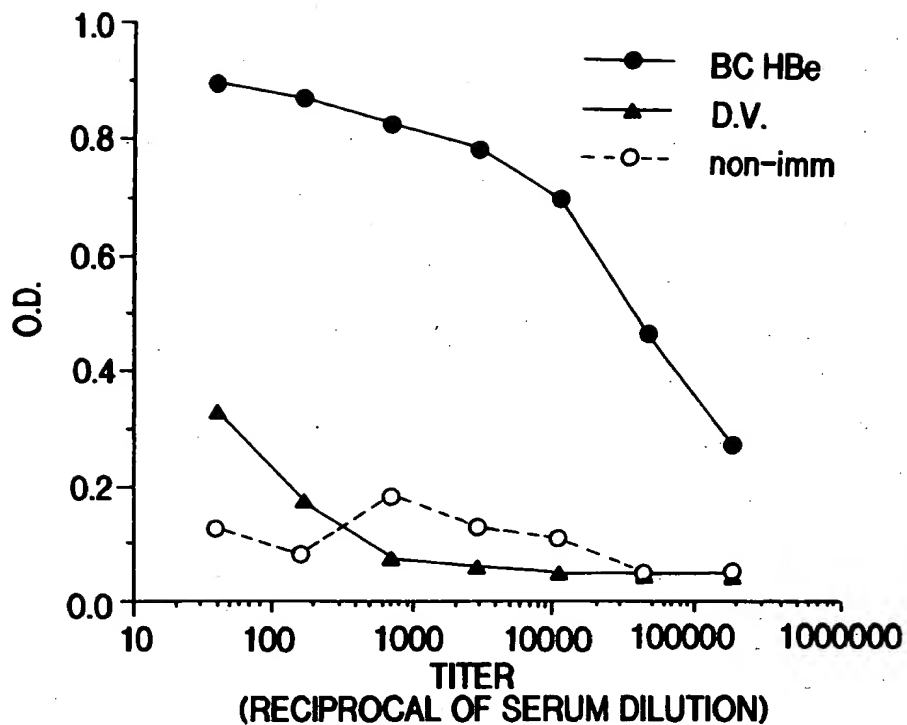


FIG. 7B

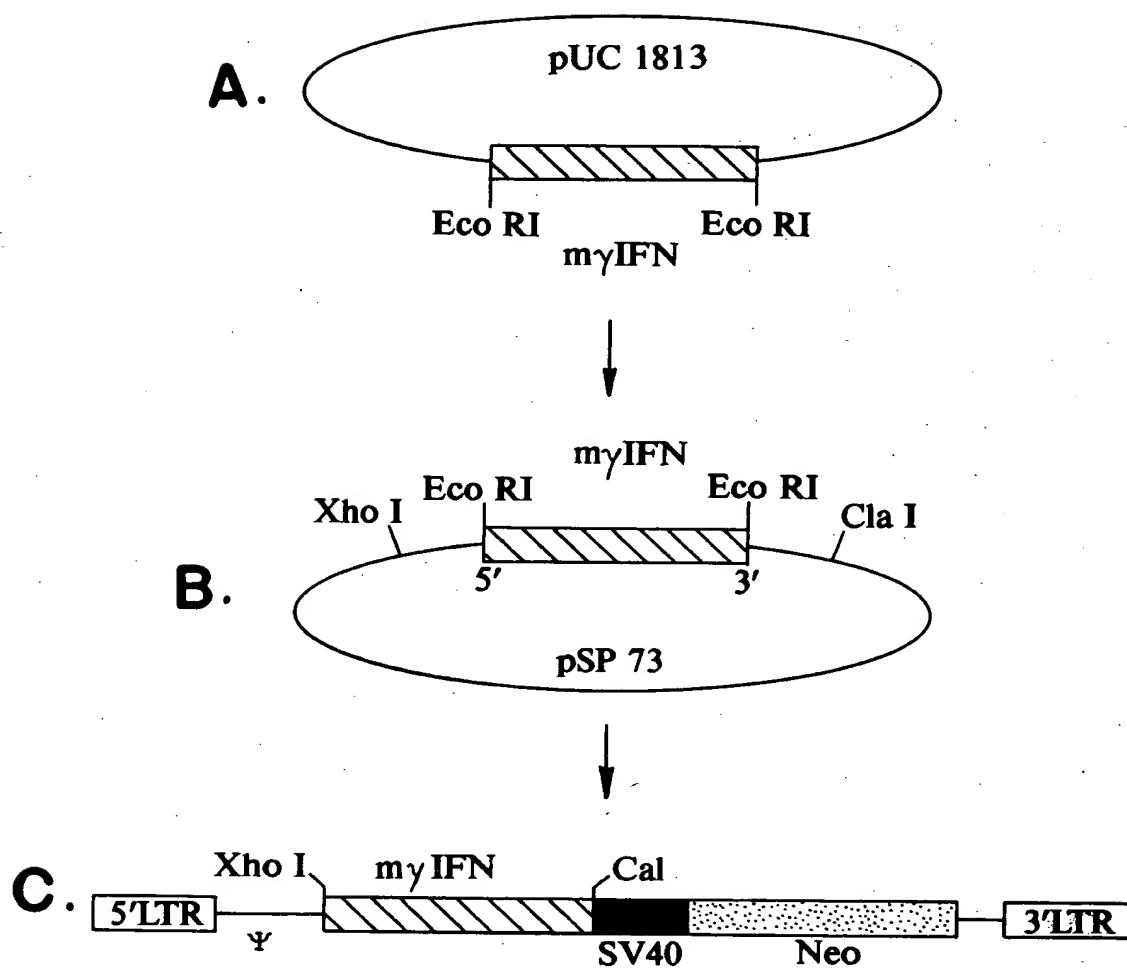


FIG. 8

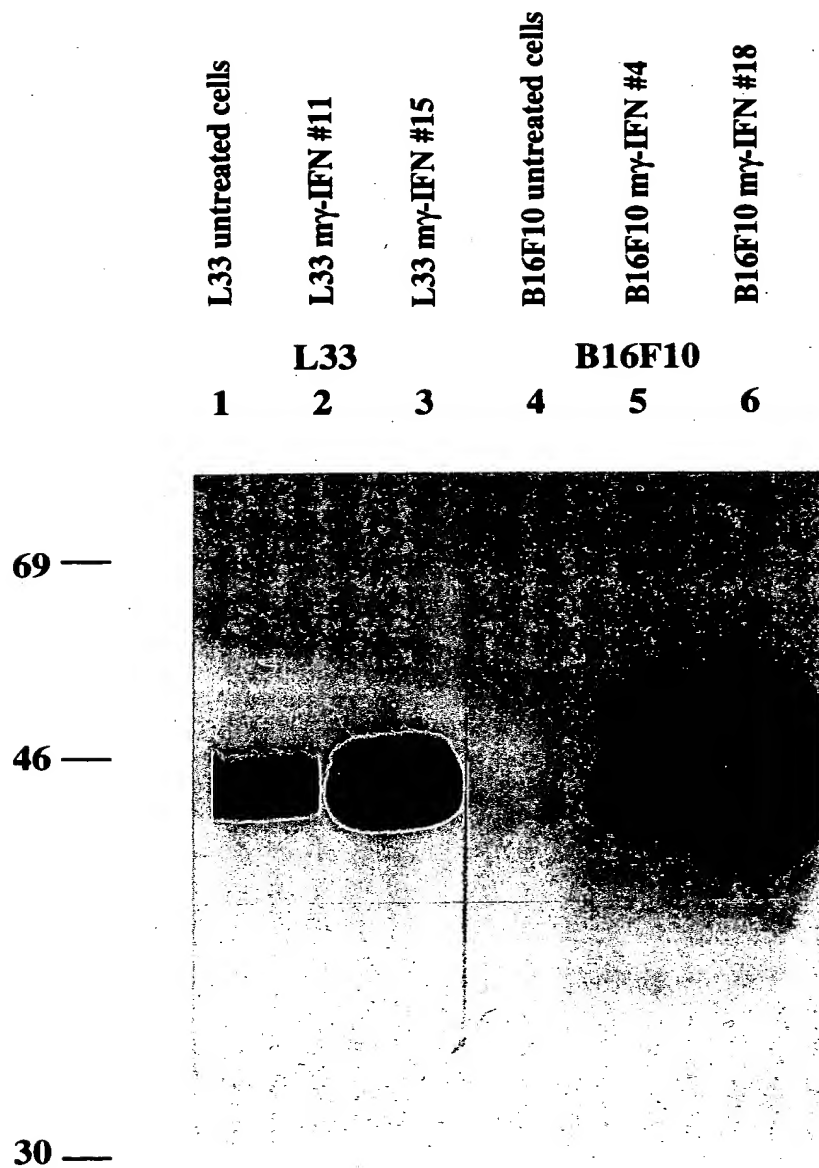


FIG. 9

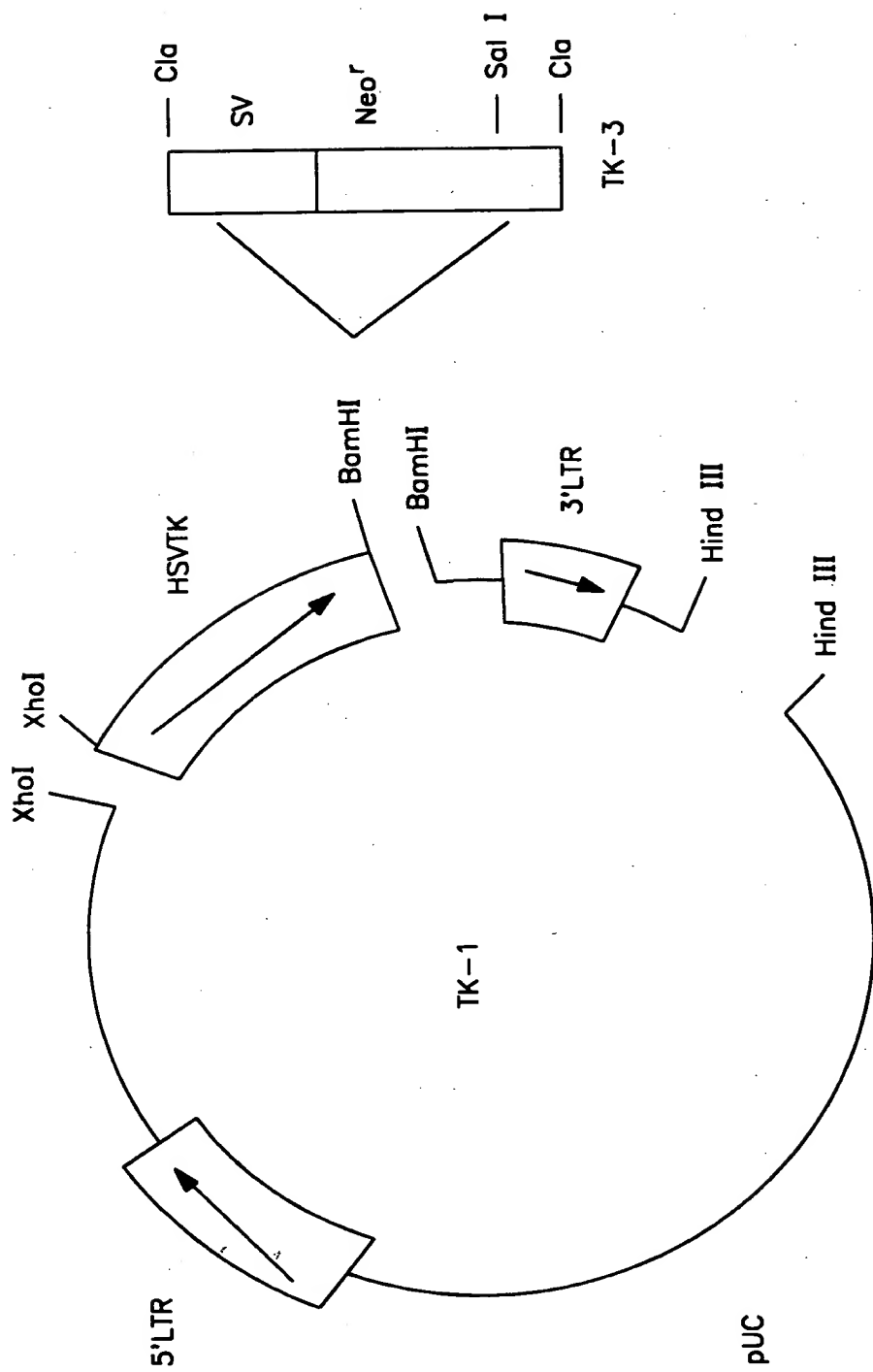


FIG. 10

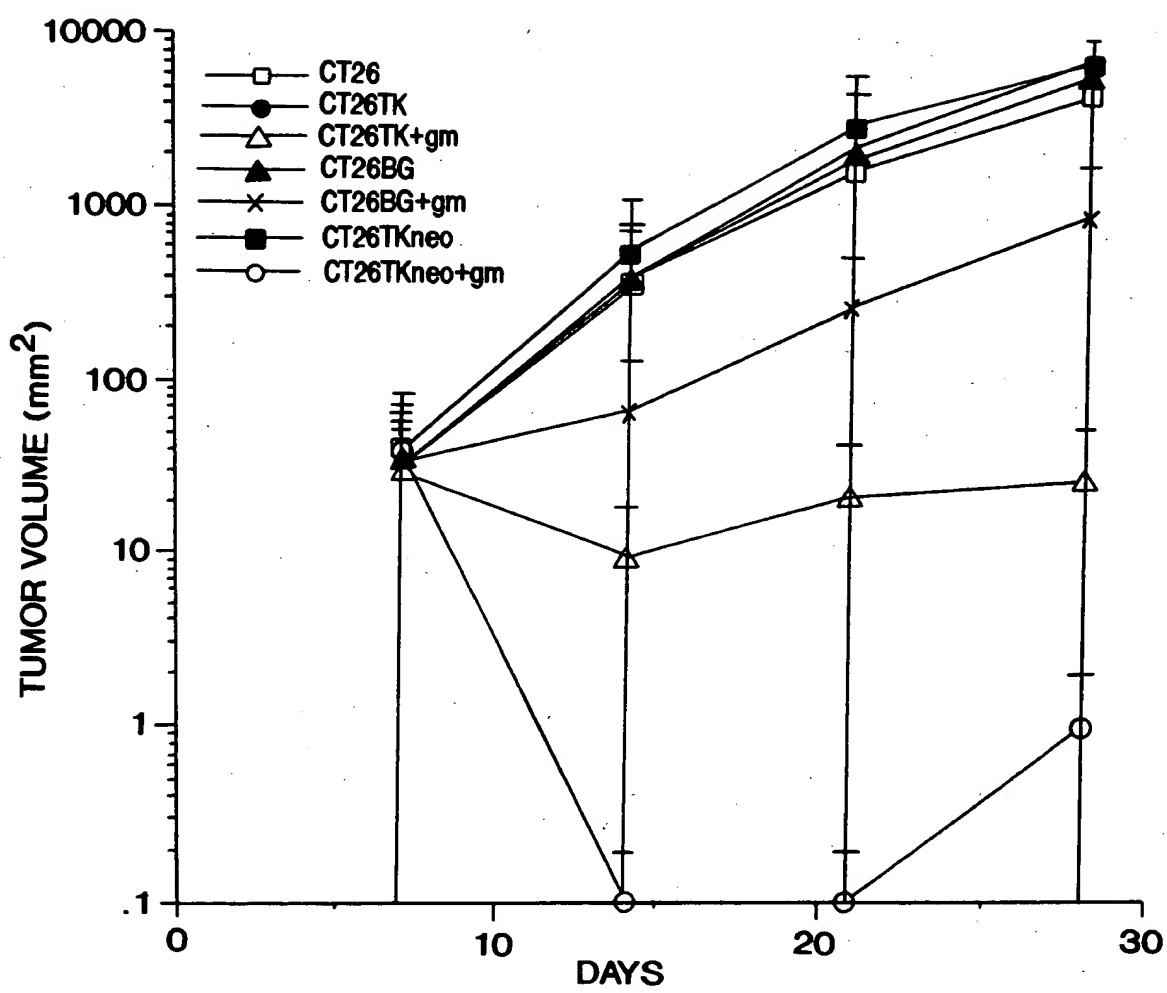
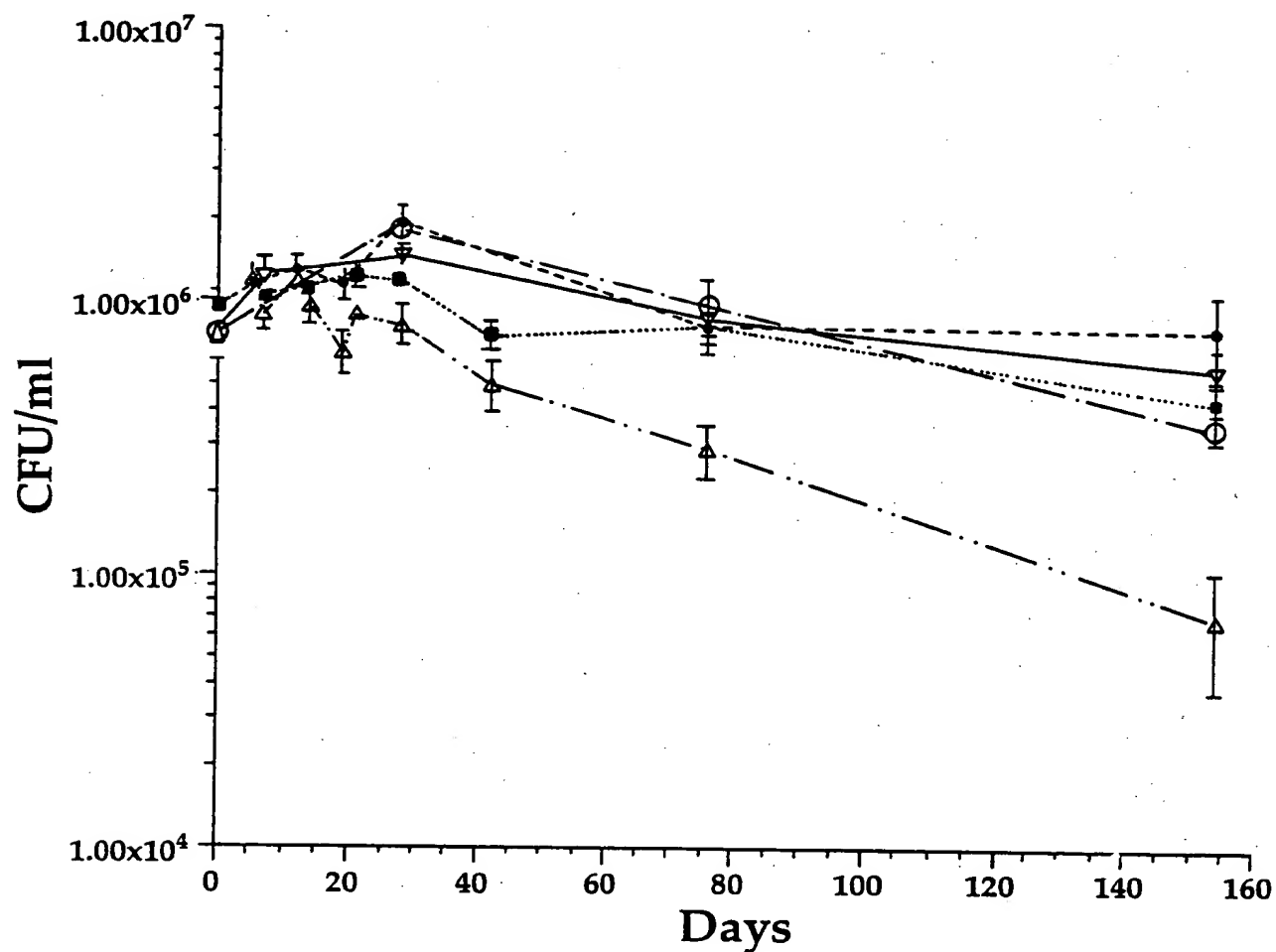


FIG. II



Formulation:

25mM Tris pH 7.2
60mM NaCl
1 mg/ml Arginine
5 mg/ml HSA
50 mg/ml Lactose

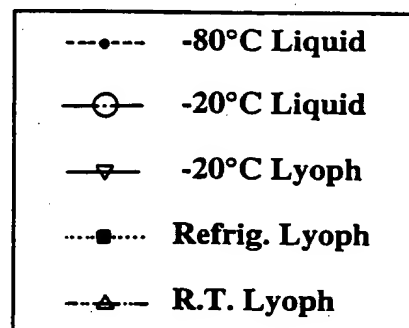


FIG. 12

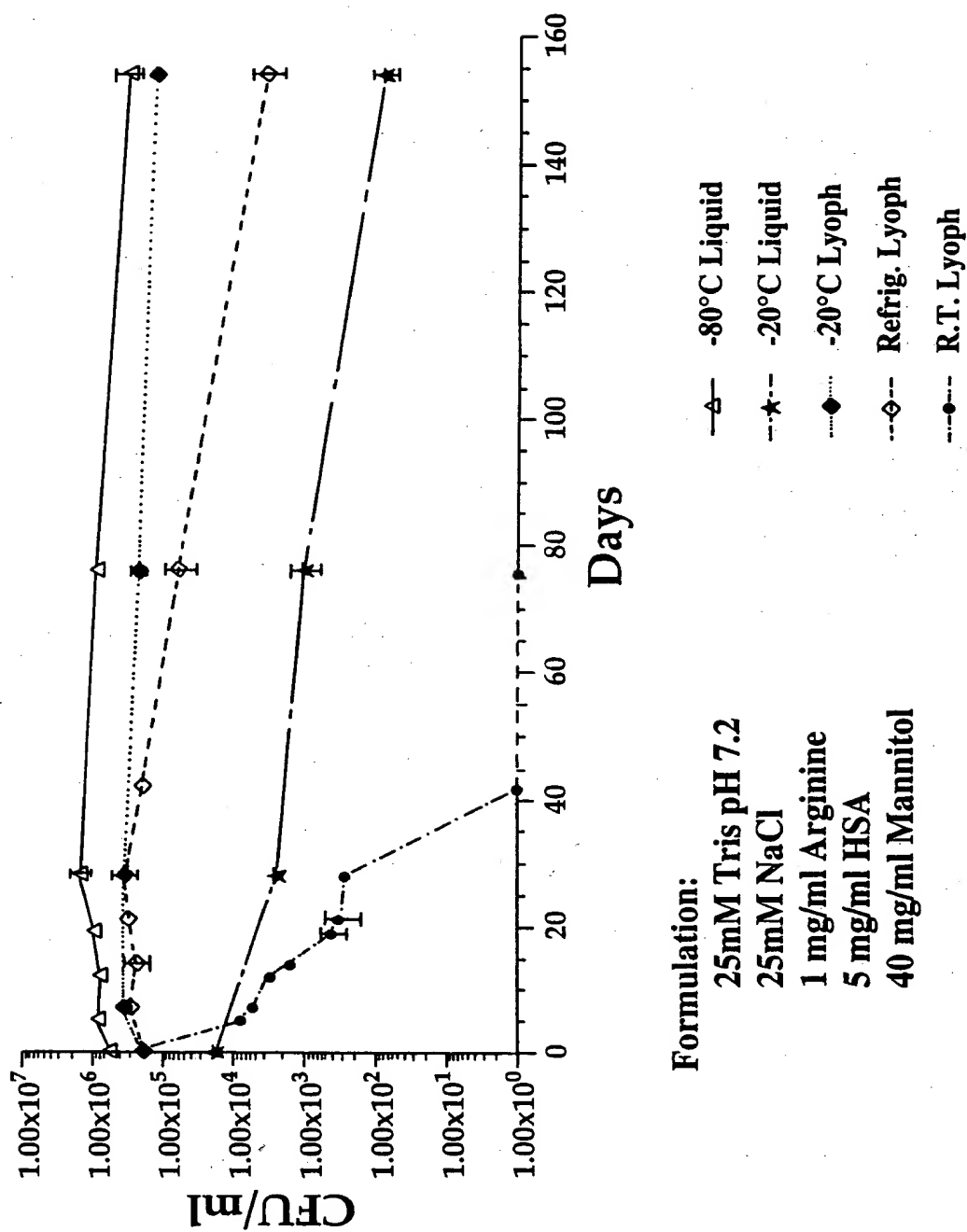
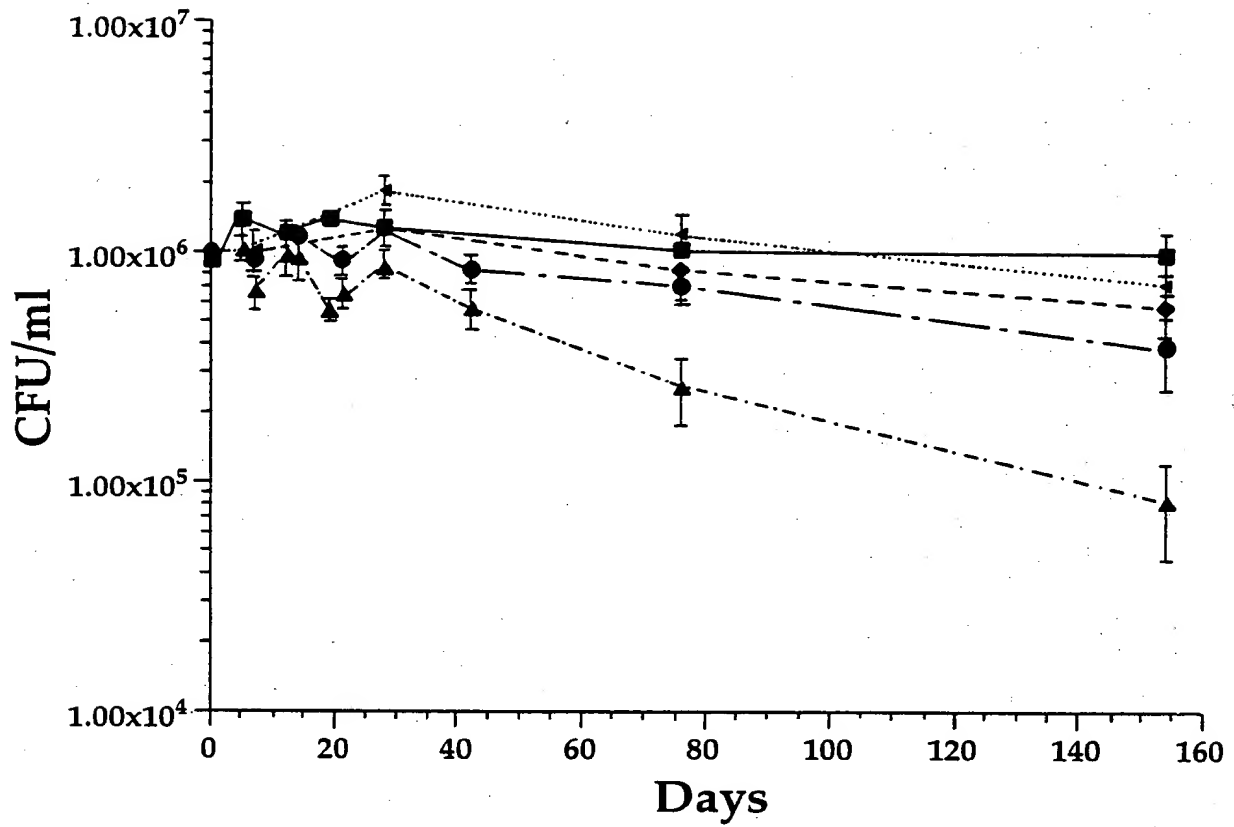


FIG. 13



Formulation:

25mM Tris pH 7.2
60mM NaCl
1mg/ml Arginine
5mg/ml HSA
50mg/ml Trehalose

- -80°C Liquid
-△..... -20°C Liquid
- ◇--- -20°C Lyoph
- .-.-●-.-.- Refrig. Lyoph
- ▲--- R.T. Lyoph

FIG. 14

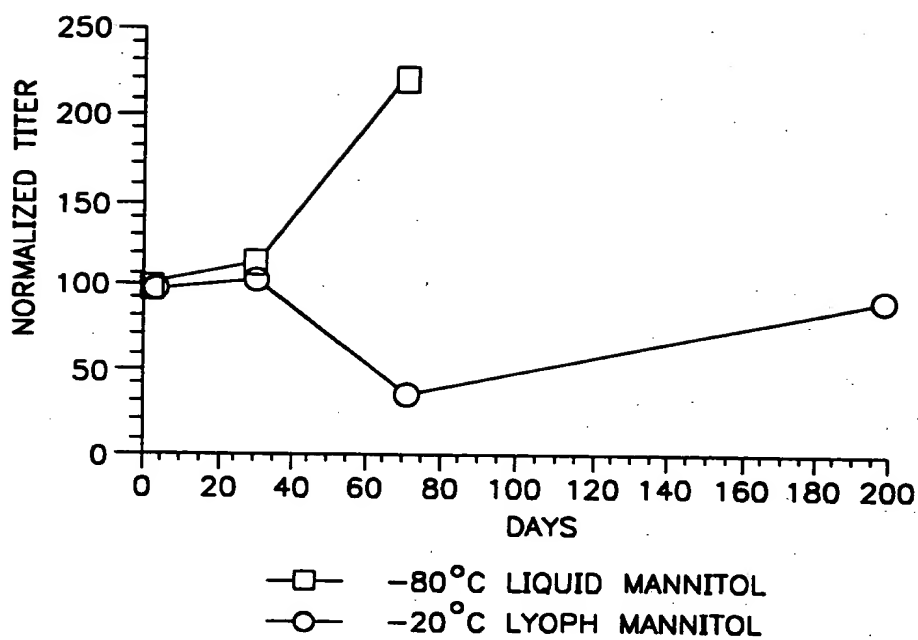


FIG. 15A

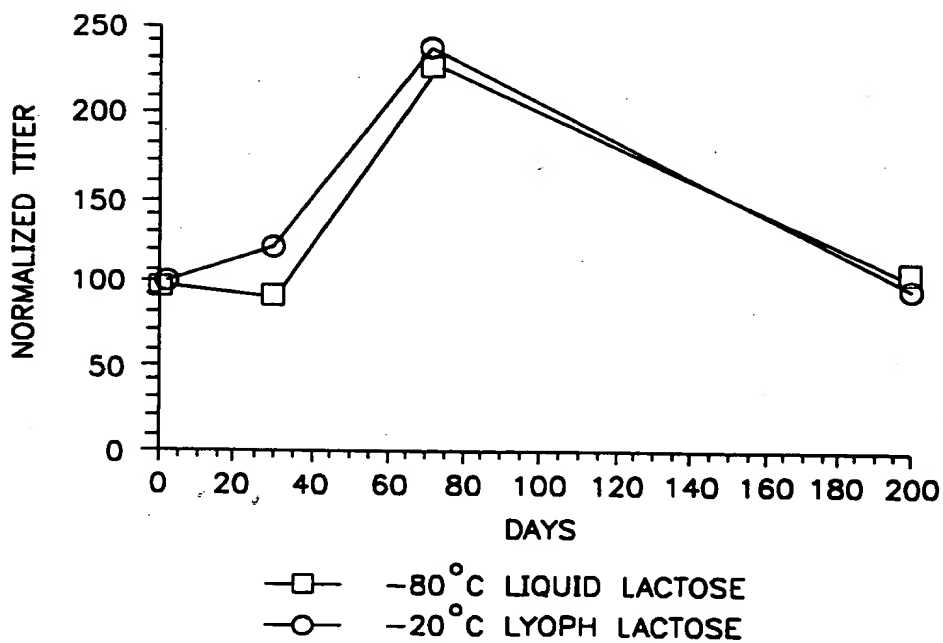


FIG. 15B

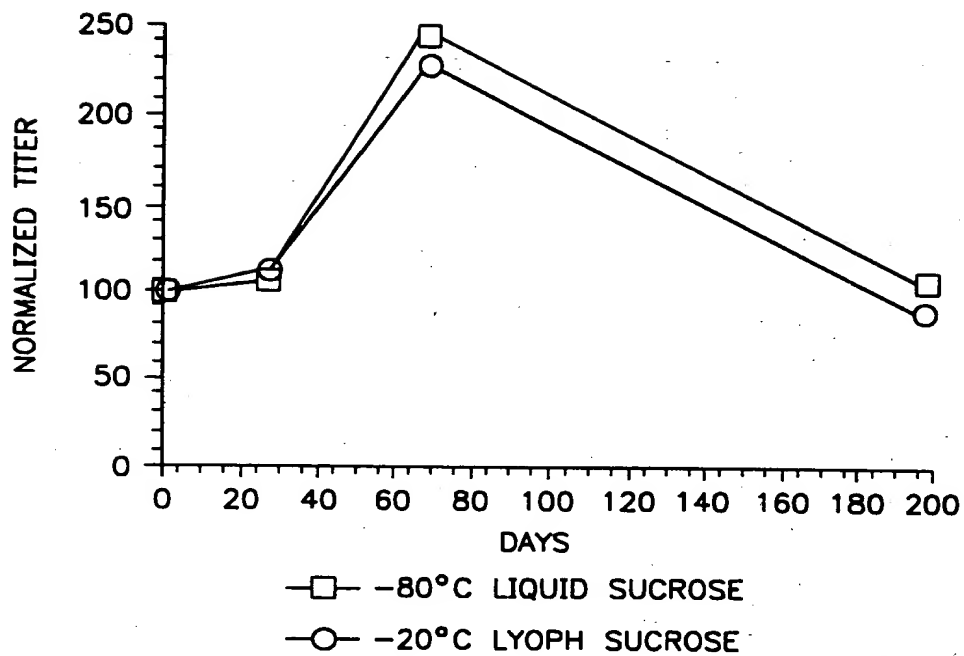


FIG. 15C

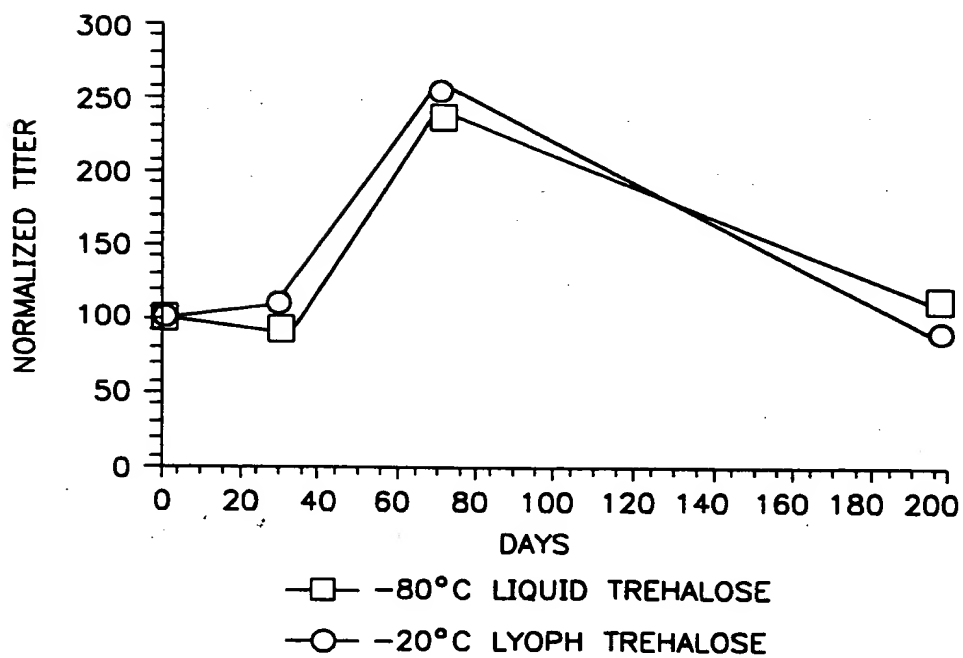


FIG 15D